

# Douglas Coates

## RESEARCH POSITIONS

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<b>Postdoctoral Research Associate</b> , EPSRC funded position under the supervision of Mark Holland, The University of Exeter, Exeter, United Kingdom	Apr. 2022 - Present
<b>Postdoctoral Researcher</b> , under the supervision of Sylvain Crovisier, Université Paris Saclay (CNRS), Paris, France	Sep. 2021 - Mar. 2022

## EDUCATION

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<b>PhD. Mathematics</b> , under the supervision of Mark Holland and Dalia Terhesiu,	Oct. 2016 - Jan. 2021
<b>MSci Mathematics</b> , University of Bristol	Sep. 2012 - Sep. 2016

## PUBLICATIONS AND PREPRINTS

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- [1] Douglas Coates and Stefano Luzzatto. “Persistent Non-Statistical Dynamics in One-Dimensional Maps”. 2023. doi: [10.48550/arXiv.2302.11411](https://doi.org/10.48550/arXiv.2302.11411). url: <https://arxiv.org/abs/2302.11411>.
- [2] Douglas Coates, Stefano Luzzatto, and Muhammad Mubarak. “Doubly Intermittent Full Branch Maps with Critical Points and Singularities”. 2022. doi: [10.48550/arXiv.2209.12725](https://doi.org/10.48550/arXiv.2209.12725). url: <http://arxiv.org/abs/2209.12725>.
- [3] Douglas Coates. “Semi-Stable Laws for Intermittent Maps”. 2021. url: <https://ore.exeter.ac.uk/repository/handle/10871/124410>.
- [4] Douglas Coates, Mark Holland, and Dalia Terhesiu. “Limit Theorems for Wobbly Interval Intermittent Maps”. In: *Studia Mathematica* 261.3 (2021), pp. 269–305. issn: 0039-3223. doi: [10.4064/sm200427-21-11](https://doi.org/10.4064/sm200427-21-11). url: <https://doi-org.uoelibrary.idm.oclc.org/10.4064/sm200427-21-11>.

## VISITING POSITIONS

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Visitor of Ali Tahzibi, University of São Paulo, Campus São Carlos, São Carlos, Brazil	Nov. 2022
Visitor of Marcelo Viana, Instituto de Matemática Pura e Aplicada, Rio de Janeiro, Brazil	Oct. - Nov. 2022
Visitor of Stefano Luzzatto, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy	May - Dec. 2022
Visitor of Stefano Luzzatto, The Abdus Salam International Centre for Theoretical Physics, Trieste, Italy	Feb. - Aug. 2021

## TEACHING

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**Academic Programme Manager and Senior Tutor**, International Mathematics Master (ICTP programme in Pakistan), Jul. 2020 - Jan. 2022

*Responsibilities:* problems classes, lecturing, course preparation, administration, exam writing, supervision of master's thesis

*Courses:* commutative algebra, real analysis and measure theory, differential geometry, probability, dynamical systems, functional analysis, differential equations

**Teaching Assistant** at ICTP, Trieste, Italy

Feb. - Aug. 2021

*Responsibilities:* problems classes, homework marking

*Courses:* dynamical systems and ergodic theory (master's level)

**Teaching Assistant** at the University of Exeter, Exeter, UK

2016 - 2020

*Responsibilities:* problems classes, exam marking, homework marking

*Courses:* mathematical structures (1st year), mathematical methods (1st year), signals series and transforms (2nd/3rd year), stochastic processes (2nd/3rd year), metric spaces and topology (3rd/4th year)